



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090921-B

Mode: Highway

Status: Submitted

NC-105

From/Cross Street: SR 1136 in Watauga County

Specific Improvement Type: 1 - Widen Existing Roadway

To: SR 1107 in Boone

Project Category: Statewide Mobility

Length: 5.49

TIP#: R-2566B

Fully Funded in Draft STIP? No

Cost to NCDOT: \$47,800,000

Description:

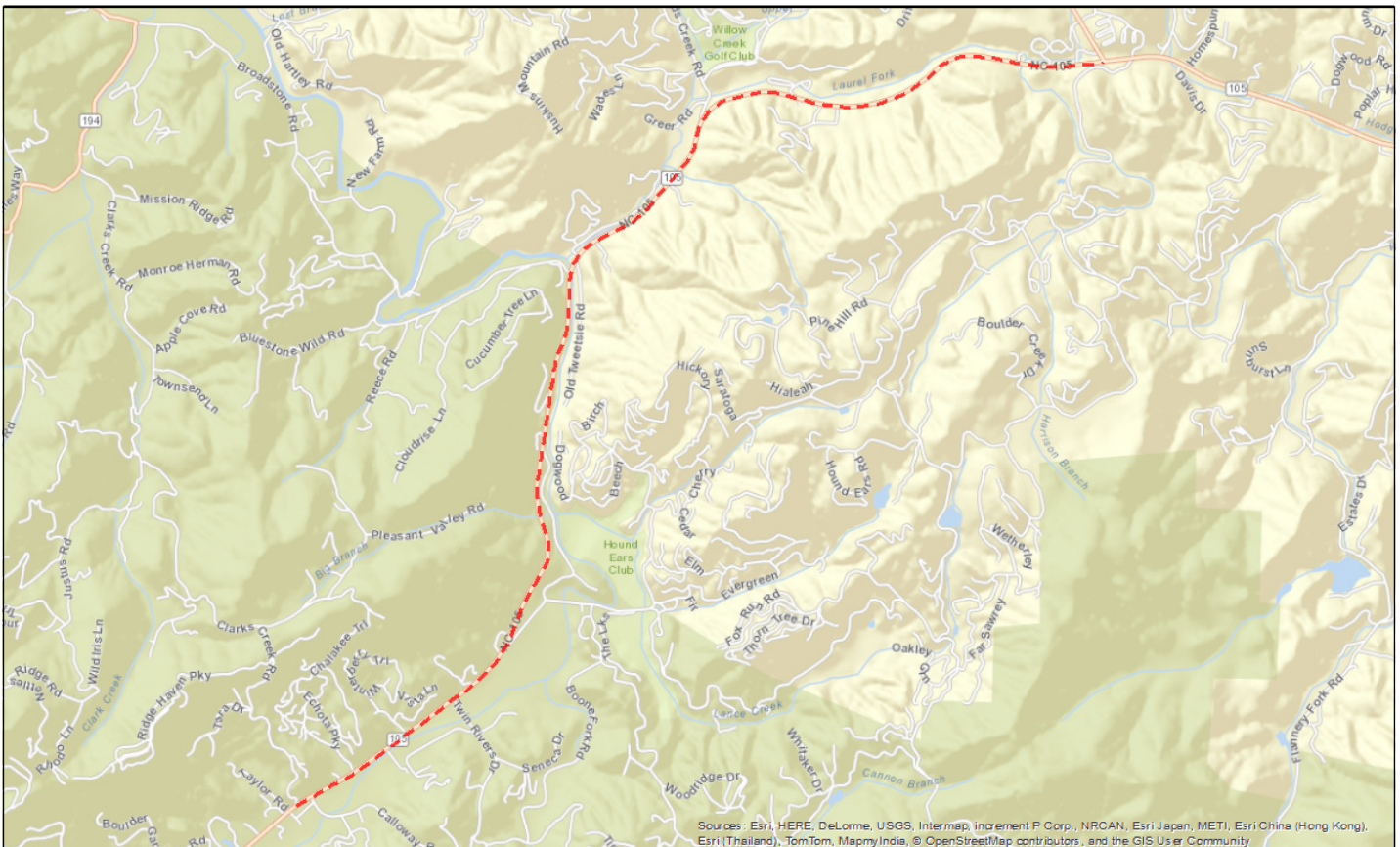
Widen to Multi-Lanes.

Division(s): Division 11

County(s): WATAUGA

MPOS(s)/RPO(s): High Country RPO

Project Location



Statewide Mobility Total Score: 25.65

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (30%) 54.39	N/A	N/A
Safety (10%) 68.85		
Economic Competitiveness (10%) 10.77		
Multimodal + [Freight & Military] (20%) 4.92		
[Travel Time] Benefit/Cost (30%) 1.27		
Totals: Weight: 100% Weighted Score: 25.65		

Regional Impact Total Score: 53.77

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 54.39	Percent: 15% Points: 100	Percent: 15% Points: 100
Safety (10%) 68.85		
[Travel Time] Benefit/Cost (25%) 1.27		
Accessibility / Connectivity (10%) 29.71		
Totals: Weight: 70% Weighted Score: 23.77		

Division Needs Total Score: 18.02

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 54.39	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%) 68.85		
[Travel Time] Benefit/Cost (20%) 1.27		
Totals: Weight: 50% Weighted Score: 18.02		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	5.49
Facility Type:	Two Lane Highway
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Mountainous
Lane Width:	11
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	12734.94
Capacity:	15500.02
Volume/Capacity Ratio:	0.82
% Autos:	92%
% Trucks:	8%
Truck Volume:	984.44
Crash Density:	84.67
Crash Severity:	58.41
Critical Crash Rate:	63.49
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	20
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	88
Actual Congested Speed:	0
Travel Time Index:	0

Project Benefits

Project Cross-Section:	4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders
Speed Limit:	55
Length (miles):	5.49
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Other Principal Arterial
Terrain Type:	Mountainous
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	2676975.2
Travel Time Savings for 30 Years (Autos):	2470039.87
Travel Time Savings for 30 Years (Trucks):	206935.33
Long-Term Employment:	44
% Change in Economy:	0.00017142
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 11

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 11	100%	100	0
	0%	0	0
	0%	0	0
TOTAL Division Points		100	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
High Country RPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$40,000,000	TIP Unit
Right-of-Way Cost:	\$1,000,000	TIP Unit
Utilities Cost:	\$6,800,000	TIP Unit
Total Project Cost:	\$47,800,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$47,800,000	